

November 2001

From the Editor. . .

Welcome to our November newsletter, which highlights recent LLNL activities and related upcoming events. We have designed this monthly message as a way to share information with our neighboring community, and we hope that you find it helpful.



[University of California](#)

"Space & Science Saturday"

A special 'Space and Science Saturday' event will take place at the Laboratory's Visitors Center on Saturday, Nov. 10, from 10 a.m. to 2 p.m. The attractions will include activities hosted by the Chabot Space and Science Center, plus special Visitors Center displays. This is an opportunity for all community members and their families to experience hands-on science, and learn about astronaut training, rocket science, robotics and more. For more information on "Space and Science Saturday" see <http://www.llnl.gov/llnl/06news/Community/expo.html>.



[National Nuclear Security Administration](#)



[U.S. Department of Energy](#)

Science 2002 Lecture Series Returns to Livermore



Dr. Peter Backus

Dr. Peter Backus, Observing Programs Manager for the Search for Extraterrestrial Intelligence (SETI) Institute, will be our guest lecturer on Thursday, Nov. 15, at Livermore High School. Affiliated with the Institute since 1985, Dr. Backus will discuss his contributions to the search for life in the cosmos. His talk will begin at 7 p.m.

COMMUNITY NEWS

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Science 2002 lectures are free and seating is on a first-come basis. For more information on the series go to <http://www.llnl.gov/llnl/06news/Community/lecture.html>.

Spotlight On the Laboratory Post Sept. 11

Since the terror attacks on September 11, the Laboratory's work in the areas of biodetection, counterterrorism and incident response have gained the attention of a variety of news media outlets nationwide.

A few projects of interest are our Handheld Advanced Nucleic Acid Analyzer (HANAA), a portable, battery-powered device that can rapidly detect pathogens, our Autonomous Pathogen Detection System (APDS) which continuously monitors the air for the presence of pathogens, and the Biological Aerosol Sentry and Information System (BASIS).

BASIS is a field laboratory linked to a network of monitors that "sniff" the air for biological agents. It was developed in partnership with Los Alamos National Laboratory and is currently



CNN's Chuck Afferback interviews Page Stoutland (right) on technologies to combat bioterrorism. Lab counterterrorism programs have been a popular subject of media reports since the Sept. 11 attacks.

Let us hear from you

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Your ideas on how we can improve this newsletter, or our Laboratory programs, are welcomed.

Please forward any comments or questions you may have to Scott Wilson (925) 423-3125/
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designed for use at special events. For more on the Laboratory's efforts go to <http://www.llnl.gov/llnl/06news/Employee/articles/2001/11-02-01-coverage.html>

UC President/Vice President Address the Laboratory's Response to Sept. 11

Recently Laboratory employees received the following letter from University of California President Richard C. Atkinson and Vice President John P. McTague.

Members of the Laboratory community:

As our nation recovers from the shock and destruction of the terrorist attacks on September 11, we want to tell you how proud the University of California is of the way you have responded to the crisis.

In addition to being concerned about site security as well as your personal safety, you have responded tirelessly to help public health officials, law enforcement authorities, and others throughout the nation understand and deal with the new threat of terrorism. Fortunately for the nation, many of you have been helping to determine how to respond to such a threat long before the need became so tragically clear to everyone, and for that we are deeply grateful.

The Los Alamos and Lawrence Livermore Labs were created in times of crisis — LANL during World War II and LLNL during the Cold War. Through all of the changes and challenges the laboratories and the nation have faced in the intervening years, the defining characteristic of the labs' leadership and staff has been their keen sense of national mission — working toward important goals and performing with extraordinary skill and dedication. This attitude was the legacy of Ernest Lawrence, whose programs became the model for America's national laboratories, and of Robert Oppenheimer, the first director at Los Alamos. Today it is your legacy.

Our world is very different now than it was half a century ago; the past few weeks alone have brought extraordinary changes. We have little doubt that there will be more challenges in the war against terrorism, and we are certain that you will continue to create the science and technology essential to meet those challenges. The University of California is proud to manage the national laboratories, and we are indebted to you for all that you do for the University and for our nation.

*Sincerely,
Richard C. Atkinson
President, University of California*

*John P. McTague
Vice president*

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Laboratory Scientists Make Salmonella Breakthrough

Laboratory biomedical scientists Peter Agron and Gary Andersen have developed a DNA-based detection system that is expected to drastically reduce the time it takes to detect salmonella. Salmonella enteritidis, the most common egg pathogen, becomes a problem when disease-carrying eggs have not been thoroughly cooked or are left unrefrigerated. With this new detection system, what once took up to two weeks to identify may soon be discovered within hours. For more on this breakthrough see <http://www.llnl.gov/llnl/06news/Employee/articles/2001/11-02-01-salmonella.html>

Laboratory Technologies Receive R&D 100 Honors

An advanced technique for discovering genes, a better way to mark safety-critical parts, and an accelerated process for producing laser glass earned three teams of Laboratory researchers R&D 100 honors last month. In all, Department of Energy/NNSA laboratories earned 23 R&D 100 honors from R&D Magazine this year. For more on these three awards see "Recent Headlines" below.

The 'Memoirs' of Edward Teller

Laboratory Director Emeritus Edward Teller's autobiography, entitled *Memoirs: A Twentieth Century Journey in Science and*

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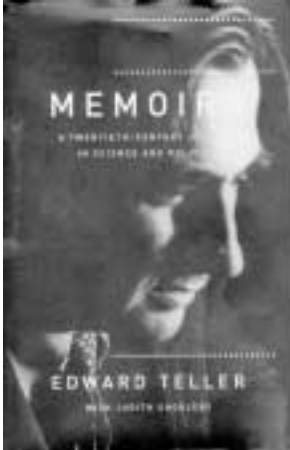
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Politics, has just been released. Written with retired Hoover Institution book editor Judith Shoolery, and printed by Perseus Publishing, this much-anticipated life story went on sale in bookstores Nov. 1.

Edward Teller's autobiography has been recently published.

Laboratory Visitors Center and Tours

Please stop by our Visitors Center to learn more about the Laboratory's mission and programs. The Visitors Center is located on Greenville Road at the Eastgate entrance to the Laboratory. It is open Monday-Friday, 1-4 p.m. For more information about the Visitors Center or tours, please call (925) 422-4599.

Laboratory TV Show

"Technology Today," a television program designed to help inform our neighbors about activities at both Lawrence Livermore and Sandia national laboratories, airs each Monday evening at 8:30 p.m. on the Tri-Valley's community television station, Channel 30. If you have a topic that you'd like to see discussed on "Technology Today," please contact us at (925) 422-3138.

Let us hear from you

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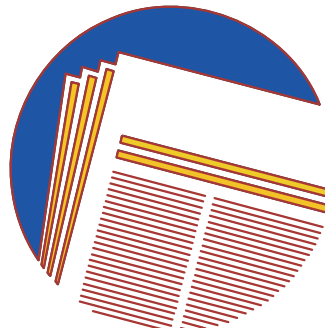
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Your ideas on how we can improve this newsletter, or our Laboratory programs, are welcomed. Please forward any comments or questions you may have to Scott Wilson (925) 423-3125/
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Recent Headlines

You may be interested in these recent articles from the Laboratory's weekly newspaper, *Newsline*. These stories can be viewed by visiting the Public Affairs Website at <http://www.llnl.gov/llnl/06news/Employee/2001index.html>. Call or e-mail us if you would like more information.



- Lab technologies take top honors (Oct. 5, 2001)
- Gordon praises NNSA security efforts (Oct. 5, 2001)
- Jens Mahler named acting Engineering AD (Oct. 5, 2001)
- Ellen Raber to head Environmental Protection Department (Oct. 5, 2001)
- Pact to develop next-generation computer chip extended (Oct. 5, 2001)
- PSOs step up efforts to stay on guard (Oct. 12, 2001)
- Partnership targets proteins to design new drugs (Oct. 12, 2001)
- Scramjet technology may be a propellant for hypersonic flight (Oct. 12, 2001)
- Sparks' leadership earns honors from DOE (Oct. 12, 2001)
- Employee awareness key to Lab security (Oct. 19, 2001)
- NIF conventional facility complete (Oct. 26, 2001)
- Smart Probe to begin testing at UC Davis (Oct. 26, 2001)

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